CLAIMS

What is claimed is:

- An axle assembly comprising:
 a first axle shaft defined substantially along a first axis of rotation;
 a second axle shaft defined substantially along said first axis of rotation;
- an electric motor defined substantially along a second axis of rotation transverse to said first axis of rotation;
- a first stage gear reduction driven by said electric motor;
 a second stage gear reduction driven by said first stage gear reduction; and
 a third stage gear reduction driven by said second stage gear reduction, said first axle
 shaft and said second axle shaft driven by said third stage gear
 reduction.
- 2. The axle assembly as recited in claim 1, further comprising a second electric motor defined along a third axis of rotation transverse to said first axis of rotation.
- 3. The axle assembly as recited in claim 1, wherein said first stage gear reduction comprises a drive gear which drives a single gear which mounts a pinion gear of said second stage gear reduction.
- 4. The axle assembly as recited in claim 3, wherein said single gear and said pinion gear are defined along a common axis of rotation.
- 5. The axle assembly as recited in claim 3, wherein said pinion gear is supported by a single gear at one segment, a pinion bearing at a second segment and at a third segment between the first and second segments by a bearing cage.

- 6. The axle assembly as recited in claim 5, wherein said bearing cage is mounted to a housing through a shim.
- 7. The axle assembly as recited in claim 1, wherein said first stage gear reduction comprises a drive gear which drives a single gear which mounts a pinion gear of said second stage gear reduction, said pinion gear drives a ring gear.
- 8. The axle assembly as recited in claim 7, wherein said ring gear is coaxial with said first axis.
- 9. The axle assembly as recited in claim 7, wherein said ring gear drives said third stage gear reduction.
- 10. The axle assembly as recited in claim 1, wherein said third stage gear reduction comprises a single speed electric carrier.
- 11. The axle assembly as recited in claim 1, wherein said third stage gear reduction comprises a two-speed electric carrier.
- 12. The axle assembly as recited in claim 1, wherein said third stage gear reduction comprises a includes a differential gear set substantially contained within the two-speed reduction gear set.

- 13. An axle assembly comprising:
- a first axle shaft defined substantially along a first axis of rotation;
- a second axle shaft defined substantially along said first axis of rotation;
- a first electric motor defined substantially along a second axis of rotation transverse to said first axis of rotation;
- a second electric motor defined substantially along a third axis of rotation transverse to said first axis of rotation;
- a first stage gear reduction driven by said first and second electric motor;
- a second stage gear reduction driven by said first stage gear reduction; and
- a third stage gear reduction driven by said second stage gear reduction, said first axle shaft and said second axle shaft driven by said third stage gear reduction.
- 14. The axle assembly as recited in claim 13, wherein said first stage gear reduction comprises a drive gear driven by said first electric motor and a second drive gear driven by said second electric motor, said first and second drive gear drive a single gear which mounts a pinion gear of said second stage gear reduction.
- 15. The axle assembly as recited in claim 14, wherein said single gear drives a pinion gear of said second stage gear reduction, said pinion gear drives a ring gear.
- 16. The axle assembly as recited in claim 15, wherein said ring gear is coaxial with said first axis.
- 17. The axle assembly as recited in claim 16, wherein said ring gear drives said third stage gear reduction.